

# DRAGON

#### RELEASES DISKS Dragon Data Ltd has lauriched a Disk Drive un'it

Dragon Date Ltd has launched a Disk Drive unit for the Dragon 32 horse computer The Dask Drive and expand

program flooding lared data for healthing. It is the neal step up in this and program storage from the casestie recorder and can itself be expended in you and your Dragon system progress. Prood at \$275, the Chagon Dat Drive is a single half height diver in a coasted steel

height drive in a coated steel date. If has an internel power supply and is easily expandable to a double disk system by inserting an indifferent other. Two double untils can be linked to form a

its specifications are. Dsk Type 51 Min diskette

Mamory Capacity
(Formated) 184320 by
Dak Orpomention
Single Sidel
Double density
62 tracks (TP)

Costed steel, capable of hidding his half recipil drives waspin (with one drive). The corroller can support in 35 but threes, single or disches saled separatiny (b) see histor may be gate.

operating system is held in FIOM (Read memory only) or the operationer and The Dragon Disk Drives will be invalidate through the used Dragon dealirerhips ar retailers, including Boots. EDITORIAL
Stop Press Number 4 is here!
Despite the artisestem of the
sum based benefits of South
Walks at the time of
complication, our laises!
edition comes packed with
programs end artistics ready

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inciding fibe teaching for hedging you to learn? Stop Street, after four issues that certainly developed a superior four the second of the sec

states that the color colors that the colors that

Miss Cally Hyde Dragon Data Ltd Neorig Missernal Es Margier Port Tarbot SA13 2PG

Margam Port Tarbot SA13 2FG The offices have had the praviege of using Deage Date's new duc system

to its general release and has been therefored with its implied on the use of Diregor whether it be on writing programs the discoyatem has an automatic time numbering feature which is a boost or week processing. Stop Profits or whatener We are such that the utroduction of this system will be discoyated the utroduction of this system will differ many occurs possibilities to be designed as the control of the system will differ many.

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s with your hinds any aggestions for future tooless and programs



### MACHINE CODE CORNER

in the last edition of Stop Press, we supland in few sample methods of moving shipped abland the high-esolution projects access Our men opinions was vertical insversion, sample that one be ashfered by coursing values from tote to by without getting invalues in the 184° level. The

without getting involved in I file. "Be" level. The time has come to group the nettle - and look in horizontal mesember.

But first we need to learn about a very specific register. - the Condition Code fingulate (CC). This is a 1-byte is but prograter, in which each soons.

But first we need to learn about a very specific registor - the Condition Code fregister (CD). This is a 1-type is bit regists, in which each soperal bit has a job to do n decorring the operation rate of the corresport. Each bit is either it judged or 1 (cert). The eight bits of the CC register are

E F H I V Z V

F Fest Intervent Request Mesh. In Half Comy Reg 1-Interrupt Bargunst Mesh In Sign Play

When nanous machine code contribetion are executed, three flags are frequently clared or est according to the result of the contribute. In fact, we have other used the area ting ZC, without correspond to lose IZ it land daily it has next it may be a supplementation of the CPP correspond to the IZ it land daily it has next it may be supplementations of the contribute make the ZC is separate to 68°F. The treat corresponds to the ZC is they, to desting a formed in ZC is detailed as the ZC is they, to desting a formed in ZC is detailed.

Two commends which by the proportions of direct access to Cole and AREC COLE and AREC

with Cresults in 6 50 ASPC 18t ceims 2.

Now let's get beck to hardpostel severand You will recall that in PMOSEA each point of the high resolution screek is represented by one bit, which is extern from green or built or cell (black). Digit of these bits are combined in one byte of the combined on the place. The discreek is the property of the place of t

segment of 3 plants wide is moved to the right post at a time

lyse 1 8yle 2 73543218 78943218

78113219 78142219 1.11188811 11111111 2.11118881 11111111 2.1111888 11111111

# 1111111 ###1111
7.1111111 | ###1111
Two bytes are instituted, and the bits are labelled from 7 down to 6, which is the usual

commention. We can break down the vertoes operations as follows:

(a) a field: 1 operation from the left of byte 1;

(b) the bits of byte 1 eas shifted to the right;

(c) bit 2 of byte 1 revens to bit 7 of byte 2;

(d) the bits of byte 2 are shifted to the right.

If the dissipant is read in reverse order joints to log-file propoler of benominal impression to the log-file propoler of benominal impression for the last in seen to be very shallow. Two commands which por long way forwards solving the problem are ROW (filedate Right) and log, (finished Lett). These commission solders the bit 7H/ROMAN TAIL CAMPY PLAS In other worlds. SORT has the effect of bit Intradestring whatever in

FOR THE RESIDENCE OF THE CONTROL OF

the carry flag.
We shall row use ROR to live an amous screen
the acreen First in Basic:
W PRODEL FILLS COLORS I SCREEN 8
9 99AUS

36 CREAM SINH MECODOXICLESTICMODES: 46 CETHARD ITS 56 A 56 FORE - ETOJAR PUTTS 561-ET-55 ME A PRET NEXT 56 FORE - ETOJAR PUTTS 561-ET-55 ME A PRET NEXT

98 FORES TOURS PUTS 981-11-15-941-7 19 EOTO:9 Mode that the DMP discovered is received by the visible feet to the 11 The street is released by youngle, any low youngle, machine other youngle, any low youngle, machine other seed of the left feet to the price of the feet authorized, the other street of the the subtreet of the price making up the street, which will be a price making up the street, and the price of the price of the price of the general for allow for these who may wish to use \$400,000 ft. or in other \$40

nw 56 rog ra	n does th	row is 32 i e job	syles The	following
				Marchin
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- 2		LEAY	WHA Y	20 A0 6
- 1		LDA	1.30	68.11
4		STA	SWIFE	87 7775
	L00F1	LOA	**	26 66
	L00# 2	LEAX	.y	26 84
- 7		LOB	1135	C8 15
	LOGFS	ORGO	11	18.61
		non	×	66 94
19		FOR	5.8	66.81
15		ron	2 X	66.82
12		LEAX	32 X	30 50 25
13		DODE		84.
16		BNE	1,0073	26.72
18		DICA		44.
10		F160	10072	26 (1)

26 - 26 Lines 1 and 2 give Y the address of the boy-left losts of the arrow I uses 3 and 4 officer 38 in STFF do some a check on the suspect of times 15 is referenced to 18 he 17). A and 8 are used for counting - they are declinemented until they are discovered until they are declined until they are still stated as they are still stated until they are still stated until the property of the stated until the stat

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The required finals program is then to process process countries on the process of the proce ISLANDS



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Now insert NEXT into line 558 making if

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1 PEN ISLANDE MANS PEAPEON EXPENSED VERSION IF POLICE CHRISE - CHRISE - CHRISE - CHRISE - CHRISE

DEVICE ORDER
 PROCEST IS SOURCE FOLSO TIMES - B CLS
 PROCEST TO DESCRIPTS. B - BRIGHTP'S CRECKE IN TILES
 COUGH UNDERS DRIVES TWO.
 PROCEST AND ADDRESS TWO.
 PROCEST AND ADDRESS TWO.

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DR-201 CHARLES WELLEN

## 🦊 VOUNG USER PRGES

### GETTING INTO LOOPS

Do you crepy taking theight with a pain of open production and their point of the

18 POLEADA PRINCES SOPRERI 1 POLS 46 CIRCLE1 SE SE 86 GUTO SE

Line 19 note up the grephics screen. Line 48 character for earlier and time 68 kineps the program showing the graphics screen. Use the BREAK key to stop the character for the program of the program of

THE CHICAGO YU.S.C. HW START FIVEH RETURN

perameters to play with This revenue that we may get the default value has reachine would give for C,HW/81ART and FMESH.

26 X = 125 Y = 106 R = 56 C = 4 PW = 1 SYART = 6 FINSH = 1 We'll use loops to change the values starting with

W FOR X - 18 TO 248 STEP 5

M NEXT

Line 48 moves the centre of the circle scrose the scroen. Line 78 calls the subroutine which draws the discle and time 50 makes the program go back travels the line suit 1,000 to 300 to 300

Your whole program should now look like the NEPCLARM PRODES SCREEN LPCLE

SE X-100 Y = NO FLOR C = EVW = ESTART = EFROSH = 1 NO COSUPETION NEXT P S NO COSUPETION NO COSUPETION NEXT P S NO COSUPETION NEXT P S

THE CHECKER, YEAR, DWG TART, FROM PETURE FILM \$10

To make the carde drop all we need to do is to type a different line 45:

AN TIGHT YOU BY STEP IN

X and Y together

What about changing the ruduo? Type in this new

No 40 - NO 10 STEP 76

RUN the program and then change line 42 again.

If you no 19 to 19 STEP 5

other bearing it is fruitzed. One vely to give a boundary round a someon is to drew a circle with large reflex.

The pretty pattern above has an added pattern caused by interference patterns on the someon.

can add debor to make it made introducing the enrich four colours to other through of these can be the tuckground colour Aris like place program. It changes the value of G from a to 4 and then sets of tuck, to 1 again. So ma a the mach me goes through the holp the cut disease.

M IF C < 4 THEN C = C+1 ELSE C=1

BUN your program now Of course you can't see the circle draws in the background colour! The rest parameter is HW or HEIGHT TO WIGHT RATIO it points the circle out into an ellipse date on egg or rapply bits III HW is less than 1 the cases of Independ IP HW is less than 1 the

If through because early fourth of light is driven in the bedrogrand colour and over mates come the previous ellipse. A small ableration in line to retroves this, shall change the 1st line and to 3 how the bedrightend colour in not used. The START and FINISH persented allow us to

ALFOR HAVE BY TO A STOP AN

The BTART and FINISH percentage allow us draw hootydels cricke and eliques the ST and FINISH values go from 8 (2 orchode to 1 Moderation at the way to 3 orchode agoint) in we can go round nearly floor three purposed to marry 4. We need yet more new time 48% or an Total April 10 orchode and the state of the and Total April 10 orchode and the state of the and Total April 10 orchode and the state of the time of the state of the state of the state of the and Total April 10 orchode and the state of the time of the state of the state of the time of the state of the state of the time of the state of the state of the time of the state of the time of the time of the time of the time of t

48 FOR START - 8 TO 1 STEP 40 FCLS

But the program now and then equin with the

W FOR NAMES - E TO RESEP AS PICES.

and ledge FINISH a little bit sheed of STAR course we need to change time 400

NO START - R/ND SE - ST (NVIST) FRAME - START - 2

are the BRHs as far as Direptin is concerned it uses only the fars two letters to identify the variable. Now their to these compans drawings. They look best in PMODIA so change lies 18, and change the colour in line 28 to 0 nt. Far share of you who.

N PI - PATSTEER-28 N POR T - 8 TO 300 STEP 15 N TH - 27977/388

in x - se - straighte, y - se - expositive

I hope, you like doughtwas! If you prefur dantus





## DUCKS Here is another contribution from Gareth

Rowlinds: Yes start off with ac outdo. We revenue and TRON lime winds. Then shade be in your "integer". If you det them all, you are given another 32 dates, but in all on more beates and not to reach 1994 your decire continues to reach? The resumes to tender on controlled by \$10 and \$10. In the same of the first in controlled by \$10 and \$10. In the same line.

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46 IF INSURY > < ' ' AND E = 0' THEMM

36 OU ACCOST PRINCIPAL SELECTION (M)

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IN SOUNCEM I PRINTINCE, ILLULITS INC.

IN FOR 1 - 1251 + 0 TO 1193 + 0 RT9 - 46 X - FMALK!

IN ODDINGSO FORZE + 64 ING FORZE HIS MALK!

THE X - FMALK! ODDING SO FORZE + 61 INC

IT PEDDQ! - - NO THEN PENCE HIS IF 6U - 8

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THE IN-TITUS IF IX - 1 THEN 2 - 1 X ELSÉ 2 - 20 X X + 1

THE IT Z - IS THEN X II - 1 K II SE LI - LEFFEZO Z

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PRINCIPLE TIME & PRINCIPLE BULLETS BUL 29 PRINCIPLE WART ANOTHER GD? , 29 SCHANDES BOULDON'S BOURDON'S 29 AN INSTITUTE VOIL 30 FAN CATTONIC COSTON ELSE BUN 8 PAN VERTILE COCKDOMINETO

T - 2000 200 SC - RU SU - RE 200 GOTO 30 300 GH - STRIPSSOU 201 GH - 9X - 32 CLSO

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79 SC - 8 SE - SE FE - 39 SU - 99 T - 7589

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29 IF X - 9 THEN PRINTIPPE, DE PETURN
20 IF STEEP PRINTIPPE, DE LEGETON
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298 FORTG - 1580, MS FOREG - 1601, MS FOREG - 1485 MS FOREG - 1681 MS 398 G - 8142 DS 398 FOREG - 1580, TR FOREG - 1601 TS FOREG

100 PORES - 1903 TR PORES - 1 - 1903 TR PORES - 1907 TR 100 RETURN LETTERS FROM READERS
Position of STOP PRESS of all ages have meet in

and the description is the facilities of these, whether not their coefficients is included.

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Frithmost Avenue, Nothhubou, HAS JLL Efform
Steley of Dispositive Papersers (built SQL or recepor) the program on Sabertle.

R. Lientle precided us with a program colled MRRIGIT which produces "Tabbasis" shriller to those used in the familiar Residuals shriller to those used in the familiar Residuals shriller to the second of the familiar programmes and

IMMBLOT AND produces "feedbale" abriller to horse used in the famous Personal Window Tast. This is a darset Invoured by popularizes who aid: their polaries to take about the shapes Psychologists on the other hand are not impressed by the product hand are not impressed by the product has been to distance Personal or correspondent has programmed Drague to independ palaries.

1 REM INSELUT: R J LENTLE GODALNING

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Mrs Parn D'Avoy to a Acen QUCST playor but had not managed to storm Montocks castle yet. To continue the same adventure at a future time of ofters the following procedure to dump variable values to tape.

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WITH SAME OR LOAD NEW FILE SEEP CO.

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BI SIN BOT FLOW ROS IN CONCRETO

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OR ZI OR N OR ALONG DOS RINES THE INPUT F-I PPLO OT \$5 SR. SF. St. SP ST SV SWT SI TW V NT WT,WY.

INTEL CODUS NOS COTORIOS PEIM
PRINT CURRENT ECRLEM & CONTINUE
27999 PEM SAVEILOAC PRINT & INPUT FILERAME

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THE PERT PERT SET TAPE AND RECORDER BLACK FOR THE TO BE TO A TOTTER HAME TO FLE TO BE TO BE

Mrs D'Arcy occurs us that it work one series communicated although

## DRAW A DRAGON LOGO

The editors were delighted with the exapones to the first competition, with entere from boys and gris both is the U.K. and school. After considerable deliberation. Desture Walderson's entry was obseen as the winner of this competiti file logs was excellent and the whole program.

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PUZZIF 9

rypeing in the listing delated. All the flogs in the lists of the personal files on the same fair, from, theneby and hely straggered. One or bee delates is but the despetible in old not day as cragger ingo at all and therefore held to be a cragger ingo at all and therefore held to be a cragger ingo at all and therefore held to be a cragger and as and therefore an appropriate your programs and we pirit therefore an appropriate your programs and we pirit therefore an auch entire that is settlifully considered on the delayer in your globby Pates! for this program.

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AND DENN, BM \* P 404 TESCHELISTOR.

OR PRINTINGS AS PORTS - TITOU NEXT PRINTINGS OF MI REST OR END

SOLUTION TO DRAGON

The numerical politions to the clues gave the appropriate line numbers for the program stetements to play the tune 'Oh when the swints po marching in'. The solutions were is order 1914.20, 1921. 12, 1901. 1915. 1905. 15



willy 4 SOFTWARE CARRETTER GOOMERTITION.
Four units start from the four comune of the PMOGBS across and from the such a way had sech and always blanks cowards the nazient and the declarate described. All movement is all the same uniform speed, Write a program to dominate the nature of the units before by

The competition is open to all eges solutions in such sige proup will recall choice of free Dragon software. Send to the editional address on a casuatte with property open and address and and



Educational enthwere in new the "n" thing seth the boom in heart companied, otherwised, and reference commenced; educations settlewer to assess applicational enthwere to assess people and an opening settle them consumer to write. Hereartheless sessed programs designed to do a particular lade cere be fair to write with the advantage that they may be faster made to poor our specific sessed.

DRAGON the teacher

particular labe cere les las la welle with the advantage that throw hay be later made to pair advantage that throw hay be later made to pair Take year designifier or soon at exceptionly other who has a larguage voolubulary to learn each well. The program toldwarp git earning and to the point, advantage the user to layed a vicetacity in the larguage and these answer randomly the two larguages and these answer randomly the two larguages and these answer randomly the layer layers.

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28 DEVET REST LANGUAGE BERLINBELT SECOND
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1 TO BEST INPUT AND INDEXELS.

NO THE CONTROL OF THE

Or counter building up a vocabulary of English words and their opposition. This can be done with DATA standersents on that Intornation can be recorded on laps and extended as and what required.

To have this toolthy, this program is constituted using a successment of X as it file and of the

1 REM OPPOSITES A IN SYNCE IN C.-T DIM ARE MI

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W DATA ASLEEP AWAKE AND SUBTRACT LATER BALL SORRE DRUME PALL RISE LANCE S FART, SUDWINDLY BEAUTIFUL INFAMELY AND LOW-SULY ASSESSED LIGHT DANK REKKERER

These two programs are useful but is like glight. They after guilt has for as young children are concerned in dominating a type importer. The last page is myselves the last gargans overcomes third projecting by presenting a printednet plat if with the addition of involved and operat in also becomes more involved by the user. Thy it also see if you can conside (see the user. Thy it also see if you can conside (see the user. Thy it also see if you can conside (see the user. Thy it also see if you can conside (see the user. The user.)

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